

## LONG TERM OXYGEN THERAPY SYSTEM

### ABSTRACT

5           A long term oxygen therapy system having an oxygen supply directly  
linked with a patient's lung or lungs may be utilized to more efficiently treat  
hypoxia caused by chronic obstructive pulmonary disease such as emphysema  
and chronic bronchitis. The system includes an oxygen source, one or more  
valves and fluid carrying conduits. The fluid carrying conduits link the oxygen  
10 source to diseased sites within the patient's lungs. A collateral ventilation  
bypass trap system directly linked with a patient's lung or lungs may be utilized  
to increase the expiratory flow from the diseased lung or lungs, thereby treating  
another aspect of chronic obstructive pulmonary disease. The system includes  
a trap, a filter/one-way valve and an air carrying conduit.

15